O. F. BURTON.

Improvement in Locks for Freight-Cars.

No. 129,524. Patented July 16, 1872.

Fig: 1.

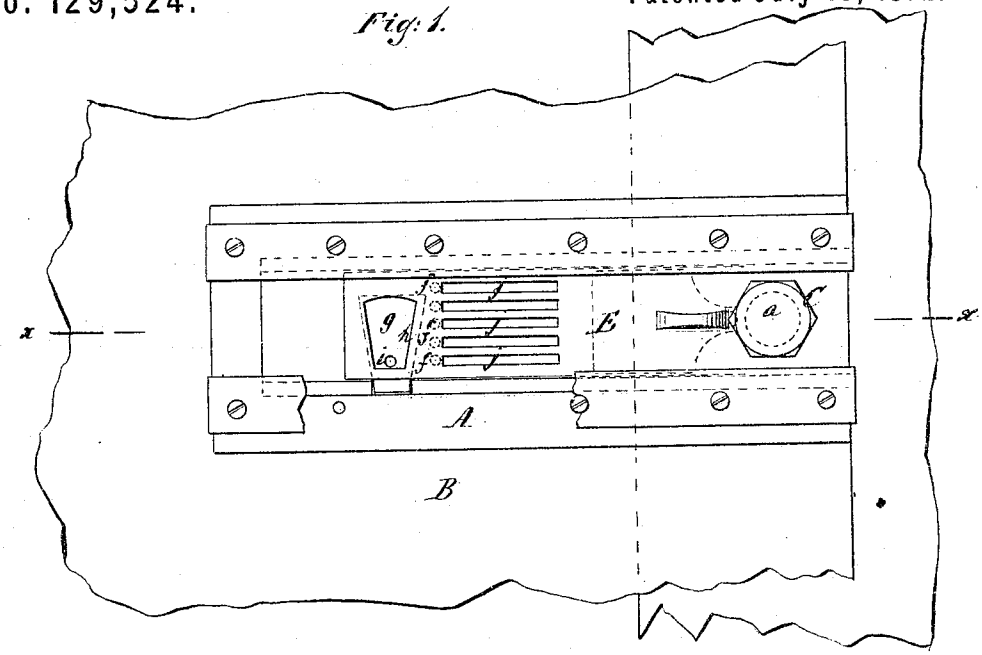


Fig: 2.

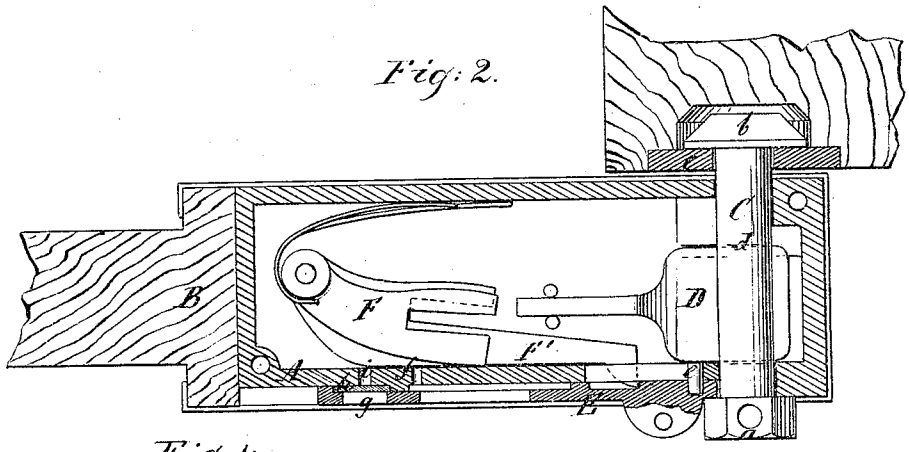


Fig: 4.

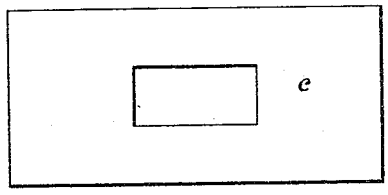
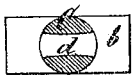


Fig: 3.



Witnesses:

C. Wahlers.

Ernest Bilhuber.

Inventor:

Oscar F. Burton

per

Wm. Eastwood & Hauff

attys

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

OSCAR F. BURTON, OF NEW YORK, N. Y.

IMPROVEMENT IN LOCKS FOR FREIGHT-CARS.

Specification forming part of Letters Patent No. 129,524, dated July 16, 1872.

To all whom it may concern:

Be it known that I, OSCAR F. BURTON, of the city, county, and State of New York, have invented a new and useful Improvement in Locks for Freight-Cars, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a face view of my invention. Fig. 2 is a horizontal section of the same in the plane *x x*, Fig. 1. Fig. 3 is a transverse section of the slotted hook-bolt; and Fig. 4 is a face view of the lock-plate.

Similar letters indicate corresponding parts.

This invention relates to a lock composed of a slotted hook-bolt, which passes through the door to be locked, a sliding bolt, which serves to lock the hook-bolt, and which is connected to a seal-slide, and the position of which is controlled by a series of tumblers in such a manner that when the seal-slide is furnished with a seal and closed, the door is firmly locked, and it cannot be opened short of wrenching off the slotted hook-bolt by main force, and in order to open the door with the key, the seal has to be destroyed first, thereby preventing any unauthorized person from opening the door.

In the drawing, the letter A designates the case of my lock, which is secured in the sliding door B. Through this case extends, in a transverse direction, a bolt, C, which is provided at its outer end with a hexagonal head, *a*, and at its inner end with a flat oblong head, *b*, that can be made to hook under a plate, *c*, secured in the body of the car or other device to which the door is attached, said plate being provided with an oblong slot, so that by turning the bolt C in the proper position, the head *b* can be released from the lock-plate *c*. In the body of the bolt C is an oblong slot, *d*, Fig. 3, intended to receive the bolt D, which is inclosed in the case A, and connected by a pin, *e*, with a slide, E, fitted to the face of the case A. By moving the slide E back the bolt D is withdrawn from the slot in the hook-bolt C, and then this hook-bolt can be turned so that its head *b* can be withdrawn from the lock-plate *c* and the door can be opened. The tail of the bolt D is opposite to a series of tumblers, F F′, and unless these tumblers are arranged in the proper position the bolt can only be moved back a short distance—that is to say, until its tail strikes the ends of one or more of said tumblers, and not sufficient to release the slotted hook-bolt C. The tumblers are adjusted by a key, which is inserted through holes *f*, and if the slide E, which carries the bolt D, is pushed forward to the position shown in the drawing, it covers these keyholes. In this position said slide is locked by one of the tumblers, F′, which catches in a recess, *r*, on the inner side of said slide. (See Fig. 2.) The slide is provided with a recess, *g*, to receive a transparent seal, *h*, and if this seal is inserted and the slide is moved forward to its locking position, it (the seal) covers the hole *i*, through which the tumbler F′ can be reached. In order to unlock the door, therefore, it is first necessary to break the seal, then insert a pin through the hole *i*, so as to force back the tumbler F′ and release the slide C, allowing the same to move back a sufficient distance to uncover the key-holes *f*. Then the key is inserted through a series of slots, *j*, in the slide and through the key-holes, and when the tumblers are properly adjusted the slide E, together with the bolt D, can be moved back, and thereby the hook-bolt C is released. If desired, the head *a* of the hook-bolt may connected to the seal-slide by the old style of lead-seal.

I do not wish to claim as my invention the seal-slide, which has heretofore been combined with locks; but

What I do claim as new, and desire to secure by Letters Patent, is—

The slotted hook-bolt C, in combination with the bolt D, tumblers F F′, and seal-slide E, all constructed and operating substantially as set forth.

O. F. BURTON.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.